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3 April 2003

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(54) Title: COMPOSITION CONTAINING A 15-KETO PROSTAGLANDIN COMPOUND FOR TREATING OF OCULAR HYPERTENSION AND GLAUCOMA

(57) Abstract: 15-keto prostaglandin compounds containing a ring structure at the end of the omega chain are used as ocular applied intraocular pressure reducing agents. They are applied in a dose below the known dose for the corresponding 15-OH compound.

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61K31/557 A61K31/5575 A61P27/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
 IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, MEDLINE, BIOSIS, EMBASE, SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 68072 A (UENO SEIYAKU OYO KENKYUJO KK) 20 September 2001 (2001-09-20) abstract page 4, line 14 - line 19 page 9, line 6 - line 12 page 23, line 16 - line 20; claims 1-3,6,10,22,23,26,30,41-43,46,50 ---	1-30
X	US 5 321 128 A (STJERN SCHANTZ JOHAN W ET AL) 14 June 1994 (1994-06-14) cited in the application abstract column 4, line 64 - line 68 column 5, line 33 - line 66; example 12; tables I,II,III,VI,IX --- -/-	1-30

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

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2 December 2002

09/12/2002

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 011 062 A (SCHNEIDER L WAYNE ET AL) 4 January 2000 (2000-01-04) abstract column 6, line 13 column 6, line 55 - line 65; claims ----	1-30
A	WO 99 51273 A (ALCON LAB INC) 14 October 1999 (1999-10-14) claims 1-5 ----	1-30
A	EP 0 366 279 A (UENO SEIYAKU OYO KENKYUJO KK) 2 May 1990 (1990-05-02) abstract; claims; examples ----	1-30
A	EP 0 308 135 A (UENO SEIYAKU OYO KENKYUJO KK) 22 March 1989 (1989-03-22) abstract; claims; examples -----	1-30

INTERNATIONAL SEARCH REPORT

International Application No. PCT/JP 01 A6211

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 3,5,9,13,15,19,23,25,29

Present claims 1,4,6,7,10,11,14,16,17,20,21,24,26,27,30 relate to an extremely large number of possible compounds (any "15-keto prostaglandin derivatives containing a ring structure at the end of the omega chain"). Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Furthermore, the term "functional derivative" used in claims 2,8,12,18,22,28 is vague and indefinite and as such renders the scope of the claims unclear. The lack of clarity is such as to render a meaningful complete search impossible.

Finally, the compound mentioned in claims 3,5,9,13,15,19,23,25,29 is not a 15-keto prostaglandin compound containing a ring structure at the end of the omega chain and does not fall under the general formula (I). The subject-matter of said claims is obviously an error and was not searched.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds such as defined by formula (I), in particular 15-keto latanoprost, with due regard to the general idea underlying the present invention.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 01/06211

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 11-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: 3,5,9,13,15,19,23,25,29 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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International Application No

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